

What is claimed is:

1. A flexible tube having a plurality of projections on an inner wall thereof which are extended axially
5 in the tube under the condition that the projections are brought into engagement with recesses formed between the projections under pressure applied from outside to the tube, whereby finally closing the interior of the tube.
- 10 2. The flexible tube of claim 1, wherein three or more projections are formed.
3. The flexible tube of claim 2, wherein one or more projections are brought into further engagement in
15 their tops with sides of other projections.
4. The flexible tube of claim 2, wherein the plurality of projections comprise a pair of projections formed plane-symmetrically with respect to a plane on the
20 axis of the tube and one projection having a symmetric plane on the plane on the axis.
5. The flexible tube of claim 4, wherein each of the projections formed plane-symmetrically with respect
25 to a plane on the axis of the tube has at least one arched side.
6. The flexible tube of claim 2, wherein the plurality of projections comprise a pair of projections
30 formed plane-symmetrically with respect to a plane on the

axis of the tube and a pair of projections having a symmetric plane perpendicular to the plane on the axis.

7. The flexible tube of claim 6, wherein both of
5 at least one pair of the projections are in the form of a trapezoid having arched sides.

8. A flow control device comprising a flexible
tube having a plurality of projections on an inner wall
10 thereof which are extended axially in the tube under the condition that the projections are brought into engagement with recesses formed between the projections under pressure applied from outside to the tube, whereby finally closing the interior of the tube, a restriction member
15 restricting widthwise expansion of the tube, and a tube pressing member.

9. The flow control device of claim 8, wherein
three or more projections are formed in the flexible
20 tube.

10. The flow control device of claim 9, wherein one
or more projections of the flexible tube are brought into further engagement in their tops with sides of other pro-
25 jections.

11. The flow control device of claim 9, wherein the
plurality of projections of the flexible tube comprise a pair of projections formed plane-symmetrically with re-
30 spect to a plane on the axis of the tube and one projec-

tion having a symmetric plane on the plane on the axis, and areas on outer surface of the tube corresponding to the pair of the projections are arranged in contact with the restriction member.

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12. The flow control device of claim 11, wherein each of the projections formed plane-symmetrically with respect to a plane on the axis of the flexible tube has at least one arched side.

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13. The flow control device of claim 9, wherein the plurality of projections of the flexible tube comprise a pair of projections formed plane-symmetrically with respect to a plane on the axis of the tube and a pair of
15 projections having a symmetric plane perpendicular to the plane on the axis, and areas on outer surface of the tube corresponding to any one pair of the projections are in contact with the restriction member.

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14. The flow control device of claim 13, wherein both projections of one of two pairs of the projections formed plane-symmetrically with respect to a plane on the axis of the tube, areas on outer surface of the tube corresponding to the both projections being in contact with
25 the restriction member, are in the form of a trapezoid having arched sides.

15. A fluid feeder comprising a flexible tube having a plurality of projections on an inner wall thereof
30 which are extended axially in the tube under the condi-

tion that the projections are brought into engagement with recesses formed between the projections under pressure applied from outside to the tube, whereby finally closing the interior of the tube, a restriction member
5 restricting widthwise expansion of the tube, and two or more tube pressing members arranged along the axis of the tube.

16. The fluid feeder of claim 15, wherein three or
10 more projections are formed in the flexible tube.

17. The fluid feeder of claim 15, wherein one or more projections of the flexible tube are brought into further engagement in their tops with sides of other pro-
15 jections.

18. The fluid feeder of claim 16, wherein the plurality of projections of the flexible tube comprise a pair of projections formed plane-symmetrically with respect to a plane on the axis of the tube and one projection having a symmetric plane on the plane on the axis, and areas on outer surface of the tube corresponding to the pair of the projections are arranged in contact with the restriction member.

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19. The fluid feeder of claim 18, wherein each of the projections formed plane-symmetrically with respect to a plane on the axis of the flexible tube has at least one arched side.

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20. The fluid feeder of claim 16, wherein the plurality of projections of the flexible tube comprise a pair of projections formed plane-symmetrically with respect to a plane on the axis of the tube and a pair of
5 projections having a symmetric plane perpendicular to the plane on the axis, and areas on outer surface of the tube corresponding to any one pair of the projections are in contact with the restriction member.

10 21. The fluid feeder of claim 20, wherein both projections of one of two pairs of the projections formed plane-symmetrically with respect to a plane on the axis of the tube, areas on outer surface of the tube corresponding to the both projections being in contact with
15 the restriction member, are in the form of a trapezoid having arched sides.